

1 Attorney Docket No. 78381

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FIBER OPTIC PITCH OR ROLL SENSOR

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ABSTRACT OF THE DISCLOSURE

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The present invention relates to a fiber optic sensing

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device having utility as a roll sensor and/or a pitch sensor.

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The sensing device comprises at least one optical fiber

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supported in a structure, a movable mass supported within the

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structure, and at least one detector for detecting changes in

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tension in the at least one optical fiber due to movement of the

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movable mass. In the sensor of the present invention, the

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optical fiber(s) are the only deformable structures, thus

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maximizing sensitivity.

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